

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,444	09/30/2003	Takayuki Kondo	116955	2616
25944 75	90 10/13/2006	,	EXAMINER	
OLIFF & BERRIDGE, PLC			LEE, JOHN D	
P.O. BOX 1992 ALEXANDRIA			ART UNIT PAPER NUMBER	
	-, · · · · · · · · · · · · · · ·		2874	
		·	DATE MAILED: 10/13/2000	S

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   Application No.   Applicant(s)				
Examiner John D. Lee  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Examiner of size may be available under the provision of 3° CPR 1.138(a), in no event, however, may a reply be trienty filed  - If No Period Grey by specified sour, be maximum studiery period val large of the Communication of the comm		Application No.	Applicant(s)	
John D. Lee   2874		10/673,444	KONDO, TAKAYUKI	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3° CPR 1.136(i), in no event, however, may any be timely filled to the communication of 3° CPR 1.136(i), in no event, however, may any be timely filled to the communication of 5° CPR 1.136(i), in no event, however, may any be timely filled to 1° 10° CPR 1.136(i) and 1° CP	Office Action Summary	Examiner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Exhibition of lines may be available under the provisions of 37 CPR 1.136(a), in no wornt, horwars, may a raisy be timely filed.  - Exhibition of times may be available under the provisions of 37 CPR 1.136(a), in no wornt, horwars, may a raisy be timely filed.  - Fally to predict may be specified above, the maximum station period will apply and will expire its (a) MONTH'S from the mailing date of this communication.  - Fally to predict may be specified by the file in the three mailing date of this communication, even if timely filed, may reduce any wornt provided by the file is the white the provision after the mailing date of this communication, even if timely filed, may reduce any maintain part time above the mailing date of the communication.  - Fally to provide them deplacement, 30 e 37 CPR 1.74(b).  - Fally to provide them deplacement are selected to the provided provided by the file of the provided by the provided by the provided by the file of the provided by the pro		John D. Lee	2874	
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provided of 13 CPR 1.136(a). In ne event, however, may a reply be limely field after SX (6) MONTHS from the mailing date of this communication.  Faither to recy within this set or extended pended for rejively. By shallow, each of each of the communication of the provided of the communication of the provided pended for rejively. By shallow, each of each of the communication of the provided pended for rejively. By shallow, each the paddiction to become ABANDOFIO 513 U.S. € 1433. Any reply received by the Differ later than these months after the maining date of this communication, even if timely flied, may reduce any sealing date and the major pended pended for rejively. By shallow the communication of the provided pended for the major pended pended for the provided pended for the major pended pended for the major pended pended for pended pe	The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address -	14
1) ⊠ Responsive to communication(s) filed on 18 August 2006.  2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☒ Claim(s) 1 and 3-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) 1.3.15-23.32 and 33 is/are rejected.  7) ☒ Claim(s) 1.3.15-23.32 and 33 is/are rejected.  7) ☒ Claim(s) 4-14 and 24-31 is/are objected to.  8) ☐ Claim(s) 4-14 and 24-31 is/are objected to.  8) ☐ Claim(s) 4-14 and 24-31 is/are objected to.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  10 ☒ Notice of Partsperson's Patent Drawing Review (PTO-948)  31 ☒ Information Discoaure Statement(s) (PTO/S8708)	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING</li> <li>Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maximum status.</li> </ul>	DATE OF THIS COMMUN 1.136(a). In no event, however, may od will apply and will expire SIX (6) Mo tute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1 and 3-33 is/are pending in the application.  4a) Of the above claim(s)	Status			
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1 and 3-33 is/are pending in the application.  4a) Of the above claim(s)	1) Responsive to communication(s) filed on 18	3 August 2006.		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)	·	<del></del>		
Al)	3) Since this application is in condition for allow	wance except for formal ma	atters, prosecution as to the merits	s is
4) Claim(s) 1 and 3-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) 1.3.15-23.32 and 33 is/are rejected. 7) Claim(s) 4-14 and 24-31 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 September 2003 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of:  1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Informalian Placent Application	closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C	.D. 11, 453 O.G. 213.	
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are allowed.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on 30 September 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) □ Some * c) □ None of:  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of Draftspersor's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08)  5) ☑ Notice of Informal Patent Application	Disposition of Claims			
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are allowed.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on 30 September 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) □ Some * c) □ None of:  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of Draftspersor's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08)  5) ☑ Notice of Informal Patent Application	4)⊠ Claim(s) 1 and 3-33 is/are pending in the ap	plication.		
6) ☐ Claim(s) 1.3.15-23.32 and 33 is/are rejected. 7) ☐ Claim(s) 4-14 and 24-31 is/are objected to. 8) ☐ Claim(s) 4-15 are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application		•		
To Claim(s) 4-14 and 24-31 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of Praftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	5) Claim(s) is/are allowed.			
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/S9/08)	6)⊠ Claim(s) <u>1,3,15-23,32 and 33</u> is/are rejected	i.		
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  □ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	· · · · · · · · · · · · · · · · · · ·			
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 30 September 2003 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application	8) Claim(s) are subject to restriction and	d/or election requirement.		
10) ☐ The drawing(s) filed on 30 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	Application Papers			
10) ☐ The drawing(s) filed on 30 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	9) The specification is objected to by the Exam	iner.		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Notice of Informal Patent Application	10)⊠ The drawing(s) filed on 30 September 2003	is/are: a)⊠ accepted or b	☐ objected to by the Examiner.	
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)	Applicant may not request that any objection to t	he drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  2)  Notice of Breferences Cited (PTO-948)  3)  Notice of Information Disclosure Statement(s) (PTO/SB/08)	Replacement drawing sheet(s) including the corr	ection is required if the drawir	ng(s) is objected to. See 37 CFR 1.12	1(d).
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3)  Information Disclosure Statement(s) (PTO/SB/08)	11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152	
a) ⊠ All b) ☐ Some * c) ☐ None of:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08)  1 ☐ Notice of Informal Patent Application	Priority under 35 U.S.C. § 119			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  1 Interview Summary (PTO-413) Paper No(s)/Mail Date.  5 Notice of Informal Patent Application	a)⊠ All b)☐ Some * c)☐ None of:  1.☑ Certified copies of the priority docume	ents have been received.		
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application	3. Copies of the certified copies of the p application from the International Bure	riority documents have bee eau (PCT Rule 17.2(a)).	en received in this National Stage	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application	See the attached detailed Office action for a l	ist of the certified copies no	ot received.	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application	Attachment(s)			
3) Notice of Informal Patent Application	1) Notice of References Cited (PTO-892)			
	3) X Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice o	f Informal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Applicant's communication submitted on August 18, 2006, has been carefully considered by the Examiner. The arguments advanced therein are persuasive and the rejection made of record in the previous Office action is hereby withdrawn. The Examiner agrees that Saini et al does not disclose optical elements attached to the substrate by adhesive. In view of further search, however, and the consequent discovery of a relevant prior art document, a new rejection is set forth below. This action is *not* made final.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3, 15-23, 32, and 33 are rejected under 35 U.S.C. § 103(a) as being unpatentable over newly cited U.S. Patent 6,045,756 to Carr et al in view of U.S. Patent 5,650,123 to Saini et al. Carr et al shows and describes, in Figure 1, an optical interconnection circuit comprising a substrate (platform) 12, a light emitting element 20 fixed on the substrate 12, light receiving elements 26, 28 fixed on the substrate 12, and optical waveguides 22, 24 formed on the substrate to connect the elements. Although the word "adhesive" is not used in the Carr et al reference, the reference indicates that the light emitting and receiving elements are "affixed to the upper surface 18 of the platform 12" (column 3, line 51). To the ordinarily skilled artisan, the word "affixed" would connote a secure and permanent attachment, such as by an adhesive. Therefore, the assumption that the Carr et al light emitting and receiving elements are adhesively fixed to the substrate (platform) 12 would have been obvious to the person of ordinary skill. The optical waveguide (22 or 24) of Carr et al transmits light from the

light emitting element 20 to a light receiving element, but does not cover a part of each element. Saini et al, however, shows (in a very similar type of optical interconnection circuit) a waveguide which covers both a part of the light emitting element and a part of the light receiving element (see Figure 1B of Saini et al). Since the geometry of the Saini et al waveguide (with angled in-coupling and out-coupling surfaces) provides more efficient coupling, it would have been obvious to adopt the Saini et al waveguide structure in the interconnection circuit of Carr et al, thus having the angled waveguide end surfaces partially cover the light emitting element and the light receiving element. Only ordinary skill in the art would be involved. As stated in the previous Office action, the limitations of applicant's claims 3, 15-21, 32, and 33 are disclosed in the Saini et al reference. In view of the remarkable similarity between the circuits of Saini et al and Carr et al, the incorporation of these features in Carr et al would have been obvious. With respect to applicant's claims 22 and 23, the method set forth therein is so broadly stated that it would have been obvious, since it basically calls for merely assembling the components that have already been demonstrated to be present in the Carr et al. reference.

Claims 4-14 and 24-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Neither Saini et al nor Carr et al disclose or suggest a waveguide light scattering mechanism or a waveguide light reflecting mechanism (claims 4-14); and neither reference discloses or suggests the specific manufacturing steps set forth in claims 24-31.

Application/Control Number: 10/673,444

Art Unit: 2874

Applicant's arguments with respect to the presently pending claims have been

considered but are most in view of the new ground(s) of rejection.

All of the prior art documents submitted with the Information Disclosure

Statement filed on September 8, 2006, have been considered and made of record in the

application. Note the attached initialed copy of form PTO-1449.

Any inquiry concerning the merits of this communication should be directed to

Examiner John D. Lee at telephone number (571) 272-2351. The Examiner's normal

work schedule is Tuesday through Friday, 6:30 AM to 5:00 PM. Any inquiry of a general

or clerical nature (i.e. a request for a missing form or paper, etc.) should be directed to

the Technology Center 2800 receptionist at telephone number (571) 272-1562, to the

technical support staff supervisor (Team 8) at telephone number (571) 272-1564, or to

the Technology Center 2800 Customer Service Office at telephone number (571) 272-

1626.

P**r**imary Patent Examiner

Page 4

Group Art Unit 2874